### SURVEY SHEET FOR INSPECTION OF HAZARDOUS WASTE FACILITIES

Name of Facility: Huntsman Chemical Corporation
Address: 5100 Bainbridge Blvd.
Chesapeake VA 23320
EPA ID Number: <u>VAD 086302866</u>
Facility Representative: Van H. White
Title: Manager of Environmental Affairs
Telephone Number: ( <u>804</u> ) <u>494-2740</u>
Inspector's Name: Erra S. Dameron
Title: Environ mental Engineer Senior
Date of Inspection: MAY 23,1990
1. What is the business activity of the firm? (i.e., furniture mfg., metal plating, recycling, etc.) manufactures of styles.  Neins into polymerized polytyrene fellets.
mfg., metal plating, recycling, etc.) manifacturer of stypes
mfg., metal plating, recycling, etc.) manifactures of styrene fulfills into polymerized polystyrene fulfills.  2. Give a brief description of the waste stream(s) and hazardous waste code(s) generated by the firm.
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2. Give a brief description of the waste stream(s) and hazardous waste code(s) generated by the firm.  waste petislum naphha maint diet.  Next. salued from plant Cleanaut (see list  3. List the amounts of hazardous waste generated on a monthly basis (use the highest monthly total) and the greatest amount

4.	Does the facility ever generate greater than: 1 kg. of acutely toxic waste (P listed waste or YES F020-F023 and F026-F027)?	NO
,	100 kg of clean-up from a spill of P listed waste YES or F020-F023 and F026-F027 waste?	(NO)
If y	ves, then the facility is a generator.	
_ Doc	How is the waste presently being handled? Where is it is a safety Kleen Cherapeale VA  33 Oldower OBJ FOOS ELOFIO, Inc., Greensboro NC NCD 980842132  and other chemicals from late cleanant	sent?
that	Does the facility generate any hazardous waste YES (1 is excluded from regulation? If yes, list the see and the basis for exclusion.	NO
that fuel comp	Does the facility generate any hazardous waste (YES) is burned for energy recovery (hazardous waste )? If yes, list the waste, where it is sent, and plete the Recyclable Materials Checkle F003 sent to Oldoner and burned for energy recovery	
is by included hazar hazar	Does the facility generate any used oil that YES (nurned for energy recovery (used oil fuel), uding used oil that is also a characteristic ardous waste, or used oil that is mixed with ardous waste generated by a conditionally exempt 1 Quantity Generator? If yes, list the waste, where is sent, and complete the Recyclable Materials Checklist.	," 10
		`.

9. Does the facility generate any hazardous waste YES NO that is reclaimed to recover economically feasible amounts of gold, silver, platinum, palladium, iridium, osmium, rhodium, ruthenium, or any combination of these? If yes, list the waste, where it is sent, and complete the Recyclable Materials Checklist.

- 10. Does the facility generate, transport or collect YES NO spent lead-acid batteries? If yes, complete the Recyclable Materials Checklist.
- 11. Based on the above, the facility is a:
  - a. conditionally exempt small quantity generator
  - b. small quantity generator
  - co generator
  - d. permitted or interim status TSD
  - e. unpermitted TSD (explain in comments section)

[Circle One]

12. Check accumulation times and quantities for the three types of generators. If the times or quantities are exceeded, then the facility is moved up to the next category. Complete the appropriate checklist(s).

A conditionally exempt small quantity generator can accumulate indefinitely, but if the amount accumulated ever exceeds 1000 kgs. then he becomes a small quantity generator. At the time the 1000 kg. limit is passed, the accumulation times for small quantity generators begins.

Small quantity generators can accumulate up to 180 days or 270 days if the disposal site is over 200 miles away. However, if at any time over 6000 kgs. of waste is accumulated, then the small quantity generator becomes a generator.

13. List each container and tank accumulation area. Specify the number and capacity of each tank. [Note: Include any satellite accumulation areas. Verify that only 55 gallons of any particular hazardous waste code (or one quart of acutely toxic waste) is at that site.]

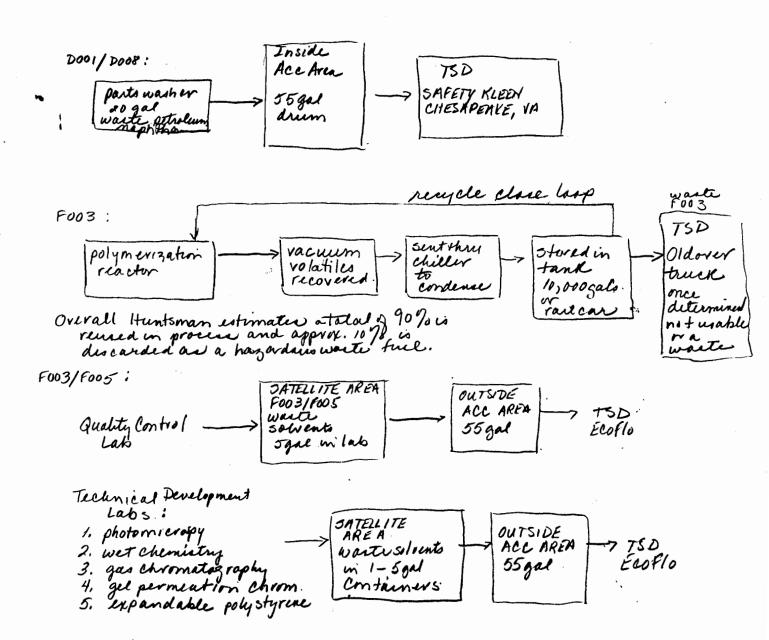
,	Location	Number of	Containers	Number of Tanks	Capacity	
OUTSIDE AL INSIDE SAFETY PART	CL AREA ACL AREA KLEEN WASHER	1			55 gal 30 gal 20 gal	
SATEL I	TE AREA Q.C. Lab T.D labs				5gal. 1-5gal.	
	rail road co tanks 14. Comme	8			40,000gal	54C/2,000g/

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### 15. Waste Management Flow Diagram

(On this page sketch a brief, but detailed, flow diagram that includes where the waste is generated, the steps through a treatment system (if any), the steps through storage including satellite accumulation areas. Do this for each waste stream including excluded hazardous waste. Include any wastewater treatment facilities at the company, and verify the type of units included in the system, and any hazardous waste streams going to WWT.)



,	Charita land late alean ant Jent to Facilia	Tan in Annil 1991
	Chemical from lab clean out sent to Ecoflo,	inc on rigin
	U239 Xylene	2.5gels
	Doo1/Doo2 dinothyldicocoammonium chloride	4 pints
	DO01/DO02 bis (tridely) exters of sodium	2 @ Y4 pint
	sulfonsusine acid	AND CONTRACTOR OF THE PARTY OF
	DO01/DO02 ammonium in veoproparal	1 @ /16 pint
	4113 ethyl acrylate	3 gals.
	4108 diviane	_2 questo
	4031 butyl alcohol	16 1/8 gt.
	4019 benzene	2.75 gels.
	DOOI Uspropanse	1 C/2 gal.
	DOOI di methylamenothanol	10 /2gt
	DOOI ethyl bemene	1 pints
	DOOI naphthalbenzein	1 @ 1/2 pint
	4077 1,2 dichloraethane	1 pint
	DOOI ethyl benzene	1 quart
	DODI hexane	16/2gal
	4159 / 2-butanone	1.25 gal
	U196 peridine	1gal
	4108 dioxane	9 queto
	U213 tetrahydraguran	2 quet
	DOOI 1- butanethist	1º 6 1/4 pint
	DOD! diethylamino ethanol	103/4 91
	4002 actions	1 pent
	2001 Scerie ammonium Julfate	
	2001 Cerie ammonium Julate tetra bestell ammonlum perchlarat ammonium persulfati	
	Doo1/Doo7 ammonium dichromate	0,5 165.
	Doo 2 & methacrylic acid, oxalyl chloris	de 1.5 gallons
	potarium platnie chlaude, co ball	<i>t</i>
	Chloride, hydrochlaric aced	-
	DOO9 Newsler's Reagent	500 mls.
	4204 selenium dioxide	50 grams
	DOD9 mereury capper amalgum	0,75/bs
	2005 barriem carbonate and barriem se	و و سند و
	2006 Cadmium stearate	5.01hs
	POOR 4- ameno antipyrine	0,125 lbs.
	DO07 potacium chromate and sodium ch	
	DOII Silversulfate	0,1251651

### CHECKLIST FOR HAZARDOUS WASTE INSPECTION OF LAND-RESTRICTED WASTE MANAGEMENT

Name of Fac	lity: Huntsman Chemical Corporation		
	5100 Bainbridge Blvd		
	Cherapeake VA 23320		
,	r: <u>VAD 086302866</u>		
	presentative: Van H. White		
	ager of Environmental Affairs		
	mber: (804) 494-2740		
_, ,	Name: Enca S. Dameron		
	inmental Engineer Senior		
Date of Insp	ection: MAY 23, 1990		
	1. Does the facility generate, transport, or treat, store or dispose any land-restricted wastes? (See Attachment)  If yes, please list:		NO
15.1.A.3.	2. Is land disposal of wastes listed in 1 above occurring?	*. YES	(NO)
	If yes, then:	•	
15.1.A.3.a.	a. Has the facility been granted an extension to the effective date for land restrictions applicable to its restricted waste? (See effective dates listed in Attachment)	YES	NO NA
15.1.A.3.b.	b. Has the facility been granted an exemption from prohibition pursuant to a petition for those land-restricted wastes and units covered by the petition?	YES	NO NA

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15.1.A.3.c.	c. Is the waste generated by small quantity generators of less than 220 pounds (100 kg) of hazardous waste, or 1 kg of acutely hazardous waste, per month?	YES	NO NA
15.1.E.	d. Has the owner/operator submitted an application for a case-by-case extension to the effective date of any applicable restriction?	YES	NO NA
15.1.F.	e. Has the owner/operator been granted a petition seeking an exemption from a prohibition for the disposal of hazardous waste in a particular unit or units?	YES	NO NA
15.1.D.1.	3. Is the facility treating land-restricted wastes in a surface impoundment or series of surface impoundments? (If no, go to number 6) [If yes, complete surface impoundment checklist] [Note: Evaporation of hazardous constituents as the principal means of treatment is not considered to be an acceptable form of treatment for land restricted wastes.]	YES	(Z)
	If <u>yes</u> , does the facility meet the following requirements:		
15.1.0.1.h 15.1.G. 15.3.C. 15.4. 15.3.	a. Are the residues of the treatment analyzed as specified in VHWMR Sections 15.1.G.or 15.3.C. to determine if they meet the applicable treatment standards or VHWMR Section 15.4, or where no applicable treatment standard exists, the applicable prohibition levels specified in VHWMR Section 15.3?	YES	ио М4-
15.1.D.1.c. 9.10.B.1. 10.10.B.3.	b. Has the owner or operator installed two or more liners and a leachate collection system consisting of an upper and lower liner designed, constructed and operated to prevent the migration of any constituents through the liners?	YES	NO NA
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15.1.D.1.c. 10.5. c. Is the facility in compliance with the YES applicable groundwater monitoring requirements of VHWMR Section 10.5.?\_

NO NA

15.1.D.1.d.	4. Has the owner or operator submitted a written certification to the Executive Director that items 4 a-c have been met which states,	YES	NO A
	"I certify under penalty of law that the requirements of 15.1.D.l.c. have been met for all surface impoundments being used to treat restricted wastes. I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."?		
15.1.D.1.d.	5. Has the owner/operator submitted a copy of the waste analysis plan for his restricted wastes?	YES	NO /
15.1.G.1.	6. Has the owner/operator determined if his waste is a land restricted waste?	YES	по
15.1.G.1a.	7. For restricted wastes which the generator is managing for which he has not met the applicable treatment standards, has the generator accompanied each shipment of waste with a notification to the treatment facility of the appropriate treatment standards and any	YES)	ИО
1	applicable prohibitions?  Did the notification include the following information:		
15.1.G.1.b.1a	- EPA Hazardous Waste Number;	YES	ИО
15.1.G.1.b.1b	- The corresponding treatment standards and all applicable prohibitions set forth in VHWMR Section 15.3.C;	YES	NO
15.1.G.1.b.1c	- The manifest number associated with the shipment of waste;	ES	NO
15.1.G.1.b.1d	- Waste analysis data, where available?	YES	NO A
15.1.G.1.b.	8. For restricted wastes which the generator has determined can be land disposed without further treatment, has the generator accompanied each shipment of waste with a notification and certification to the land disposal facility that the waste meets the applicable treatment standards and the applicable prohibitions of VHWMR Section 15.3.C?	YES	NO /
	a. Did the notification contain the following information:		

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15.1.G.1.b.1a	- EPA Hazardous Waste Number;	YES	NO 1
15.1.G.1.b.1b	- The corresponding treatment standards and all applicable prohibitions;	YES	ио У
15.1.G.1.b.1c	- The manifest number associated with the shipment of waste; and	YES	ио Л
15.1.G.1.b.1d	- Waste analysis data, where available?	YES	NO /
15.1.G.1.b.2.	b. Was the certification signed by an authorized representative, and did it state the following:	YES	ио /
	"I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in VHWMR Section 15.4. and all applicable prohibitions set forth in VHWMR Section 15.3.C. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."		
15.1.G.1.c.	9. For restricted wastes which have received a case-by-case exemption, been granted an exemption through petition, or those wastes subject to a national variance, has the generator forwarded a notice with the waste to the land disposal facility stating that the waste is exempt from the land disposal restrictions?	YES	νο ∧
15.1.G.2.	10. For Treatment Facilities ONLY: Has the owner or operator of the treatment facility tested the treatment residues or extract to assure that they shall meet the applicable treatment standards?	YES	ио М
15.1.G.2.	a. Has this testing been done at the frequency stated in the waste analysis plan?	YES	ио √
15.1.G.2.a. 15.1.G.1.a.	b. For treatment residuals which do not meet the applicable treatment standards, has the facility filed the notification in 8 above as a generator to any subsequent treatment facilities?	YES	NO N

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YES NO

15.1.G.2.b.

c. For treated wastes meeting the applicable treatment standards, or for wastes not subject to any treatment standards, has a certification been signed and accompanies each shipment stating:

"I certify under penalty of law that I have personally examined and am familiar the treatment technology and operation of the treatment process used to support this certification and that, based individuals my inquiry of those immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to achieve the performance levels specified in VHWMR Sections 15.4 and 15.3.C. without dilution of the prohibited waste. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment."

OR (for wastes with treatment standards expressed as technologies)

"I certify under penalty of law that the waste has been treated in accordance with the requirements of VHWMR Section 15.4.C. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

11.	Comments:
,	Wate recovered volatiles were incorrectly
ج.	identified on manifest as Door not FOR3, havener all Ihndban certification and treatment standards
	were correct.
	post pream :

#### Attachment - Land Restricted Wastes

<u>Waste</u>	Effective Date
F001 - F005	11/08/86
F001 - F005 from Small Quantity Generators	11/08/88
F001 - F005 generated via RCRA corrective actions or CERCLA response actions	11/08/88
Hazardous wastes containing less than 1% total F001 - F005 solvent constituents	11/08/88
F001 - F005 soil and debris resulting from RCRA corrective actions or CERCLA response actions	11/08/90
Dioxin wastes F020 - F023, F026 - F028	11/08/88
F020 - F023, F026 - F028 soil and debris resulting from RCRA corrective actions or CERCLA response	1
actions	11/08/90

### California Listed Wastes

Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing free cyanides at concentrations greater than or equal to 1,000 ppm (mg/l). [Effective 7/8/87]

Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing any of the following metals or compounds of these metals at concentrations greter than or equal to those specified below:

500 mg/l
100 mg/l
500 mg/l
500 mg/l
20 mg/l
134 mg/l
100 mg/l
130 mg/l
2.

Liquid hazardous wastes having a pH less than or equal to 2.0. [Effective 7/8/87]

Liquid hazardous wastes containing PCBs at concentrations greater than 'or equal to 50 ppm. [Effective 7/8/87]

Liquid hazardous wastes, primarily water, containing greater than or equal to 1000 mg/l HOCs, but less than or equal to 10,000 mg/l HOCs. [Effective 7/8/87]

California waste contaminated soil and debris resulting from RCRA corrective actions or CERCLA response actions. [Effective 11/8/90]

Liquid hazardous wastes, not primarily water, containing greater than or equal to 1000 mg/l HOCs. [Effective 11/8/88]

Nonliquid (non-RCRA/CERCLA) hazardous wastes containing greater than or equal to 1000 mg/l HOCs. [Effective 11/8/88]

First Third Wastes	Effective Date
F006 (nonwastewater)	8/8/88
K001	8/8/08
K004 (nonwastewater)	0/8/88
K008 (nonwastewater)	8/8/88
K015	0/8/88
K016	0/0/00
K018 .	8/8/80
K019	8/8/88
K020	8/0/88
K021 (nonwastewater)	8/8/88
X022 (nonwastewater)	0/0/08
K024	8/8/88
K025	8/8/88
козо	8/8/88
K036 (nonwastewater)	8/8/88
К037	0/0/88
Nonexplosive K046 (nonwastewater)	8/8/88
K047	8/8/88
K048 - K052	8/8/90
K060 (nonwastewater)	8/8/88
K061 (nonwastewater less than 15% Zn	
K061 (nonwastewater greater than 15%	
K062	8/8/88
Non-CaS04 K069 (nonwastewater)	8/8/88
K071	8/8/90
KOB3 (nonwastewater)	8/8/88
K086 (solvent washes)	8/0/88
K087	8/8/88
K090	0/0/80
K100 :	8/8/88
K101 '	8/8/88
K102	0/8/88
K103	0/8/88
X104	8/8/88
Soil and debris contaminated with	•
first third wastes that have	
treatment standards based on	0.40.40.2
incineration	8/8/90

# "Soft Hammer" First Third Wastes [Effective Date 5/8/90 or as treatment standards are established]

F007 P001 U007 U151 F008 P004 U009 U154 F009 P005 U010 U155 F019 P010 U012 U157 K004 P011 U016 U158 K008 P012 U018 U159 K011 P015 U019 U171 K013 P016 U022 U177 K014 P018 U029 U180 K017 P020 U031 U185 K021 P030 U036 U188 K022 P036 U037 U192 K031 P037 U041 U200 K035 P039 U043 U209 K036 P041 U044 U210 K046 P048 U046 U211 K060 P050 U050 U219 K061 P058 U051 U220 K069 P059 U053 U221 K073 P063 U061 U223 K083 P068 U063 U226 K084 P069 U064 U227 K085 P070 U066 U228 K086 P071 U067 K085 P070 U066 F087 U066 F089 U078 U249 K106 P084 U078 U249 K106 P084 U078 U249 F097 U108 F102 U115 F105 U122 F108 U124 F110 U129 F115 U130 F122 U134 F123 U137				
F008	F007	P001	<b>U007</b>	
F009 P005 U010 U155 F019 P010 U012 U157 K004 P011 U016 U158 K008 P012 U018 U159 K011 P015 U019 U171 K013 P016 U022 U177 K014 P018 U029 U180 K017 P020 U031 U185 K021 P030 U036 U188 K022 P036 U037 U192 K031 P037 U041 U209 K035 P039 U043 U209 K036 P041 U044 U210 K046 P048 U046 U211 K060 P050 U050 U219 K061 P058 U051 U220 K069 P059 U053 U221 K073 P063 U061 U223 K083 P068 U063 U226 K084 P069 U064 U227 K085 P070 U066 U228 K086 P071 U067 U228 K086 P071 U067 U237 K101 P081 U074 U238 K102 P082 U077 U248 K106 P084 U078 U249 P107 U086 P087 U086 P087 U086 P099 U089 P0992 U103 P0994 U105 P109 U089 P1099 U089 P1099 U089 P1099 U089 P1099 U089 P1090 U129 P115 U130 P120 U133 P120 U133 P120 U133			U009	
F019 P010 U012 U157 K004 P011 U016 U158 K008 P012 U018 U159 K011 P015 U019 U171 K013 P016 U022 U177 K014 P018 U029 U180 K017 P020 U031 U185 K021 P030 U036 U188 K022 P036 U037 U192 K031 P037 U041 U200 K035 P039 U043 U209 K036 P041 U044 U210 K046 P048 U046 U211 K060 P050 U050 U050 K061 P058 U051 U220 K069 P059 U053 U221 K073 P063 U061 U220 K083 P068 U063 U266 K084 P069 U064 K085 P070 U066 K084 P069 U064 K085 P070 U066 K086 P071 U067 U237 K101 P081 U074 U238 K102 P082 U077 U248 K106 P084 U078 P097 U086 P099 U089 P092 U103 P094 U105 P097 U248 K106 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P120 U133 P120 U133			U010	
K004         P011         U016         U158           K008         P012         U018         U159           K011         P015         U019         U171           K013         P016         U022         U177           K014         P018         U029         U180           K017         P020         U031         U185           K021         P030         U036         U188           K022         P036         U037         U192           K031         P037         U041         U200           K035         P039         U043         U209           K036         P041         U044         U210           K046         P048         U046         U211           K060         P050         U050         U219           K061         P058         U051         U220           K062         P059         U053         U221           K073         P063         U061         U223           K083         P068         U063         U226           K084         P069         U064         U227           K085         P070         U067         U237			U012	
K008         P012         U018         U159           K011         P015         U019         U171           K013         P016         U022         U177           K014         P018         U029         U180           K017         P020         U031         U185           K021         P030         U036         U188           K022         P036         U037         U192           K031         P037         U041         U200           K035         P039         U043         U209           K036         P041         U044         U210           K046         P048         U046         U211           K060         P050         U050         U219           K061         P058         U051         U220           K069         P059         U053         U221           K083         P068         U061         U223           K084         P069         U064         U227           K085         P070         U066         U228           K086         P071         U067         U237           K101         P084         U078         U249		P011		
K011         P016         U022         U177           K014         P018         U029         U180           K017         P020         U031         U185           K021         P030         U036         U188           K022         P036         U037         U192           K031         P037         U041         U200           K035         P039         U043         U209           K036         P041         U044         U210           K046         P048         U046         U211           K060         P050         U050         U219           K061         P058         U051         U220           K069         P059         U053         U221           K073         P063         U061         U223           K083         P068         U063         U226           K084         P069         U064         U227           K085         P070         U066         U228           K086         P071         U067         U237           K101         P081         U074         U238           K102         P082         U077         U248	,	P012	U018	
X013         P016         U022         U177           X014         P018         U029         U180           X017         P020         U031         U185           X021         P030         U036         U188           X022         P036         U037         U192           X031         P037         U041         U200           X035         P039         U043         U209           X036         P041         U044         U210           X046         P048         U046         U211           X060         P050         U050         U211           X061         P058         U051         U220           X061         P058         U051         U220           X061         P058         U051         U221           X073         P063         U061         U223           X083         P068         U063         U226           X084         P069         U066         U228           X085         P070         U066         U228           X101         P081         U074         U238           X102         P082         U077         U248		P015		
X014         P018         U029         U180           X017         P020         U031         U185           X021         P030         U036         U188           X022         P036         U037         U192           X031         P037         U041         U200           X035         P039         U043         U209           X036         P041         U044         U210           X046         P048         U046         U211           X060         P050         U050         U219           X061         P058         U051         U220           X069         P059         U053         U221           X073         P063         U061         U223           X083         P068         U063         U226           X084         P069         U064         U227           X085         P070         U066         U228           X086         P071         U067         U237           X101         P081         U074         U238           X102         P082         U077         U248           X106         P084         U078         U249		P016		
X017         P020         U031         U188           X021         P030         U036         U188           X022         P036         U037         U192           X031         P037         U041         U200           X035         P039         U043         U209           X036         P041         U044         U210           X046         P048         U046         U211           X060         P050         U050         U219           X061         P058         U051         U220           X069         P059         U053         U221           X073         P063         U061         U223           X083         P068         U063         U226           X084         P069         U064         U227           X085         P070         U066         U228           X086         P071         U067         U237           X101         P081         U074         U238           X102         P082         U077         U248           X106         P084         U078         U249           P097         U108         P090         U089		P018	U029	
X021       P030       U036       U188         X022       P036       U037       U192         X031       P037       U041       U209         X035       P039       U043       U209         X036       P041       U044       U210         X046       P048       U046       U211         X060       P050       U050       U219         X061       P058       U051       U220         X069       P059       U053       U221         X073       P063       U061       U223         X083       P068       U063       U226         X084       P069       U064       U227         X085       P070       U066       U228         X086       P071       U067       U237         X101       P081       U074       U238         X102       P082       U077       U248         X106       P084       U078       U249         P097       U108       P097       U108         P097       U108       P105       U122         P105       U122       P105       U124         P105       U129		P020		
X022       P036       U037       U192         X031       P037       U041       U200         X035       P039       U043       U209         X036       P041       U044       U210         X046       P048       U046       U211         X060       P050       U050       U219         X061       P058       U051       U220         X069       P059       U053       U221         X070       P063       U061       U223         X083       P068       U063       U226         X084       P069       U064       U227         X085       P070       U066       U228         X086       P071       U067       U237         X101       P081       U074       U238         X102       P082       U077       U248         X106       P084       U078       U249         P097       U108       P092       U103         P099       U089       P092       U103         P097       U108       U124       P105       U122         P108       U124       P10       U129       P15       U1013		P030	U036	
K031       P037       U041       U200         K035       P039       U043       U209         K036       P041       U044       U210         K046       P048       U046       U211         K060       P050       U050       U219         K061       P058       U051       U220         K069       P059       U053       U221         K073       P063       U061       U223         K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P097       U108       P102       U115         P105       U122       P105       U124         P10       U124       P110       U129         P15       U130       P120       U131         P120       U131       P122       U134		P036	U037	
K035       P039       U043       U209         K036       P041       U044       U210         K046       P048       U046       U211         K060       P050       U050       U219         K061       P058       U051       U220         K069       P059       U053       U221         K073       P063       U061       U223         K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U237         K101       P081       U074       U238         K102       P082       U077       U248         K102       P084       U078       U249         K106       P084       U078       U249         P097       U108       P102       U115         P105       U122       P108       U124         P10       U124       P110       U129         P15       U130       P120       U131         P122       U134       U134		P037	U041	
K036       P041       U044       U210         K046       P048       U046       U211         K060       P050       U050       U219         K061       P058       U051       U220         K069       P059       U053       U221         K073       P063       U061       U223         K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       P092       U103         P099       U089       P092       U103         P097       U108       P102       U115         P105       U122       P108       U124         P110       U129       P115       U100         P120       U103       P122       U1034			U043	
K046       P048       U046       U211         K060       P050       U050       U219         K061       P058       U051       U220         K069       P059       U053       U221         K073       P063       U061       U223         K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P097       U008       P092       U103         P099       U089       P092       U103         P097       U108       P102       U115         P105       U122       P108       U124         P110       U129       P115       U100         P120       U133       P122       U134		P041	U044	
X060       P050       U050       U219         X061       P058       U051       U220         X069       P059       U053       U221         X073       P063       U061       U223         X083       P068       U063       U226         X084       P069       U064       U227         X085       P070       U066       U228         X086       P071       U067       U237         X101       P081       U074       U238         X102       P082       U077       U248         X106       P084       U078       U249         P087       U086       P092       U103         P094       U105       P097       U108         P102       U115       P105       U122         P108       U124       P110       U129         P115       U130       P120       U133         P120       U134       U134			U046	
K061       P058       U051       U220         K069       P059       U053       U221         K073       P063       U061       U223         K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       U089         P092       U103       P094       U105         P102       U115       P105       U122         P108       U124       P110       U129         P115       U130       P120       U133         P122       U134       U134			<b>U050</b>	
K069       P059       U053       U221         K073       P063       U061       U223         K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       U249         P092       U103       P094       U105         P097       U108       P102       U115         P105       U122       P108       U124         P110       U129       P115       U130         P120       U133       P122       U134			<b>U051</b>	
X073       P063       U061       U223         X083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       P089       U089         P092       U103       P094       U105         P097       U108       P102       U115         P105       U122       P108       U124         P110       U129       P115       U130         P120       U133       P122       U134			U053	
K083       P068       U063       U226         K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       P089       U009         P092       U103       P094       U105         P097       U108       P102       U115         P105       U122       P108       U124         P110       U129       P115       U130         P120       U133       P122       U134			U061	
K084       P069       U064       U227         K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       P089       U089         P092       U103       P094       U105         P097       U108       P102       U115         P102       U115       U122         P108       U124       P110       U129         P115       U130       P120       U133         P120       U133       P122       U134			U063	
K085       P070       U066       U228         K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         K106       P087       U086       U249         P089       U089       U103       P092       U103         P097       U108       U105       P102       U115       P105       U122       P108       U124       P110       U129       P115       U130       P120       U133       P122       U134       U1			U064	
K086       P071       U067       U237         K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         K106       P087       U086       U249         P089       U089       U103       P092       U103         P097       U108       P102       U115       P105       U122       P108       U124       P110       U129       P115       U130       P120       U133       P122       U134       U			U066	
K101       P081       U074       U238         K102       P082       U077       U248         K106       P084       U078       U249         K106       P087       U086       U249         P089       U089       U103       P092       U103         P097       U108       P102       U115       P105       U122       P108       U124       P110       U129       P115       U130       P120       U133       P122       U134       U134			U067	
K102       P082       U077       U248         K106       P084       U078       U249         P087       U086       U089       U089         P092       U103       V105       V108         P097       U108       V115       V122         P105       V122       V124       V124         P110       U129       V130         P120       U133       V134			U074	
K106       P084       U078       U249         P087       U086       U089       U089         P092       U103       U105       U108         P097       U108       U115       U122         P105       U122       U124       U124         P110       U129       U130         P120       U133       U134			<b>U077</b>	
P087 U086 P089 U089 P092 U103 P094 U105 P097 U108 P102 U115 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134			U078	U249
P089 U089 P092 U103 P094 U105 P097 U108 P102 U115 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134	KIOO		U086	
P092 U103 P094 U105 P097 U108 P102 U115 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134				
P094 U105 P097 U108 P102 U115 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134				
P097 U108 P102 U115 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134			U105	
P102 U115 P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134			U108	
P105 U122 P108 U124 P110 U129 P115 U130 P120 U133 P122 U134			<b>U115</b>	
P108 U124 P110 U129 P115 U130 P120 U133 P122 U134	•		U122	
P110 U129 P115 U130 P120 U133 P122 U134				
P115 U130 P120 U133 P122 U134			U129	
P120 U133 P122 U134				
P122 U134			บาวว	
			U137	

### APRIL 1990

### CHECKLIST FOR HAZARDOUS WASTE INSPECTION OF GENERATORS

Na	me of Facility	: Huntsman Chemical Corporation		
Ado	dress: 5100	Bainbridge Blvd.	<u>.</u>	
	Chesap	realle VA 23320	, <b>3</b> k	
EP		VADO86 302866		
Fac	cility Represe	ntative: Van. H. White		
Tit	tle: <u>Manager a</u>	of Environmental Affairs		
	,	(804) 494-2740		
In	spector's Name	: Erica S. Damerin		_
		ntul Engineer Senior		
		on: MAY 23,1990		
Va. Waste	Hazardous Reg.	Generator Checklist		_
6.3.	i	1. Is a manifest system currently being used for all hazardous waste shipped off site?	YES	NO
6.2.C	•	2. Has the generator determined that the transporter(s) and facility have an EPA ID number? [Note: Shipments to POTWs must be manifested and the POTW must meet all permit-by-rule requirements of VHWMR Section 11.8.B.]		ИО
5.5.A	.7	3. Has the generator determined that the transporter has a valid EPA Identification number and a valid Virginia Transporter Permit?	YES	NO
6.3 5.3.B	.1.	4. Is the following information on the manifest:		

a. The generator's name, mailing (YES) NO address, EPA ID Number, and telephone number?

5.3.B.2.

5.3.B.3.

5.3.B.4.

5.3.B.5.

5.3.B.6.

5.3.B.7.

5.3.C.

- b. A unique five digit number assigned YES NO to this manifest by the generator?
- c. The total number of pages of the YES NO manifest?
- d. The company name and EPA ID number (YES) NO of each transporter used?

NO

NO

- e. The company name, site address, and YES EPA ID number of the facility designated to receive the waste?
- f. The U.S. DOT description of each waste to include its proper shipping name, hazard class, and I.D. number (UN/NA) as identified in the Virginia Regulations Governing the Transportation of Hazardous Material?
- g. The quantities of waste being YES NO shipped?
- "I The following certification: hereby declare that the contents of this consignment are fully accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by (mode of transportation) according to applicable international and national governmental regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to a degree I have determined to be economically practicable and that I have selected ! the practicable method of treatment, storage, or dispösal currently available to me which minimizes the present and future threat to human health and environment."

		•	
6.5.C.2.	5. Have manifests been received from the TSD facility for any waste which was shipped over 45 days ago?	YES	ио
	If <u>no</u> , has the generator filed an exception report with the Executive Director which included:	YES	no <i>NA</i>
6.5.C.2.a.	a. A legible copy of the manifest for which the generator does not have confirmation of the delivery; and	YES	no Ma
6.5.C.2.b.	b. A cover letter explaining the efforts taken to locate the shipment?	YES	NO NA
6.4.E.1.	6. Is hazardous waste being accumulated on-site for less than 90 days? If yes,	YES	NO
6.4.E.1.a.	a. Is the waste stored in containers? In tanks? (If answer to either question is yes, fill out appropriate checklists. If both answers are no, interim status or a TSD permit is required - fill out facility checklist to determine compliance status).	YES YES	NO NO
6.4.E.1.b.	b. Is the date that accumulation begins clearly marked and visible for inspection on each container?	YES	NO
6.4.E.1.c.	c. Is each container and tank clearly marked with the words "Hazardous Waste"? railroad cars) not marked.	YES	MO V
6.4.E.l.e.	d. Has the generator notified the Executive Director by March 1, 1988, of the exact location of the existing accumulation areas, and at least 15 days prior to use for subsequently established accumulation areas?		NO
6.4.E.2.	7. Does the generator accumulate (store) hazardous waste on-site for greater than 90 days? If yes, interim status or a TSD permit is required - fill out facility checklist to determine compliance status.	YES	NO
6.4.E.1.d.	8. Does the generator record inspections not for new accumulation area	YES	NO

9.1.F.4.	in an inspection log?  tank impertum
6.4.E.1.d. 9.1.G.1.	9. Have facility personnel successfully YES NO completed a program of classroom training or on-the-job training in hazardous waste management procedures?
9.1.G.2.	10. Have new employees to the facility YES NO successfully completed training mentioned above within 6 months of their employment or assignment to the facility?
9.1.G.3.	11. Do personnel participate in an annual YES NO review of the initial training?
	12. Does the facility maintain a record of the following:
9.1.G.4.a.	a. job titles for each position at the YES NO facility related to hazardous waste management; and
9.1.G.4.a.	b. the name of the employee filling YES NO each job; and
9.1.G.4.b	c. a written job description for each YES NO position in (a); and
9.1.G.4.c.	d. a written description of the type (YES) NO and amount of both introductory and continuing training that will be given to each person filling a position listed in (a); and
9.1.G.4.d.	e. Records that document that the YES NO training or job experience required above has been given to, and completed by facility personnel?
9.2.B. 9.2.D.	13. At the facility, is the following equipment installed:

. .

9.2.B.1.	a. An internal communications or alarm YES NO system capable of providing immediate emergency instructions to facility personnel if the hazardous waste generation or accumulation areas are threatened by hazardous waste release, fire or explosion?
9.2.B.2.	b. A device (at the scene of hazardous YES) NO waste generator operations) capable of summoning emergency assistance from Police, Fire Departments, etc.?
9.2.B.3.	Police, Fire Departments, etc. 3 the firedept/police telephone, a way radio, durif telephone to firedept/police c. Portable fire extinguishers, fire (ES) NO control, and decontamination equipment?; and
9.2.B.4.	d. Water at adequate volume and YES NO pressure to supply expected fire demands, foam producing equipment, automatic sprinklers or water spray system? **upply water tank 500,000 gallows
9.2.C.	14. Is a record of tests and inspections (YES) NO of items 13 a-d maintained at the facility?
9.2.E.	15. Does the facility have adequate aisle ves No space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment during emergencies?
6.4.E.1.d. 9.3.	16. Does the facility have an established YES NO contingency plan to deal with any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, ground water or surface water?

9.3.B. 17. Does the contingency plan contain the following elements:

9.3.B.(1,2).	a. A detailed description of emergency procedures facility personnel will implement in response to fires, explosions, or unplanned releases of hazardous waste to air, soil, and water?
9.3.B.3.	b. A description of arrangements agreed to by local police departments, fire departments, hospitals, contractors and Commonwealth and local emergency response teams to coordinate emergency services, as required?
9.3.B.4.	c. A listing of names, addresses, and Office and home phone numbers of all persons qualified to act as emergency coordinator? List primary Coordinator.
	Name D. Daneau
	Title Plant Manger
	Telephone 80+ 494-2560 (h) 804 481-9522
9.3.B.5.	d. A list of appropriate emergency (YES) NO equipment necessary to cope with emergencies at the generator facility?
9.3.B.6.	e. Does this list specify the location (YES) NO and physical description of each item on the list and a brief outline of its capabilities?
9.3.B.6.	f. An evacuation plan for the YES NO generator facility where there is a possibility that evacuation could be necessary?
9.3.C.	g. Have copies of the contingency plan YES NO been sent to all local police departments, fire departments, hospitals and Commonwealth and local emergency response teams?  List:  Chespeake Manual Hospital  Five New Orland Chespeake
	Norfall Her Haspital Local emergency response teams (LEPC)
	need to send to Commonwealth + Police
	•

h. Is there documentation to indicate YES (NO) 9.3.C. the personnel listed above received the contingency plan? not sent to Police and Commonwealth 9.3.F.(9,10). Has the contingency plan ever been (YES) NO implemented? If yes, was a written report filed YES NO NA with the Executive Director and were Executive Director and other required authorities properly notified before operations resumed? 6.4.E.3.a. Does the generator have satellite (YES) NO accumulation areas? If yes, a. Is the area located at or near the (YES point of hazardous waste generation where the wastes initially accumulate? 6.4.E.3.a.(1) Are the containers in good condition? 9.8.B. 6.4.E.3.a.(1) c. Are the containers compatible with (YES 9.8.C. the waste? 6.4.E.3.a.(1) Are the containers kept closed (YES đ. except as necessary to add or remove 9.8.D.1. waste? e. Are the containers marked with the (YES) ) ио 6.4.E.3.a.(2) words "Hazardous Waste" or other words that identify the contents of the container? 6.5.E.3.b. Are amounts in excess of those YES allowed being accumulated in the satellite accumulation area? If yes, (1) Has the generator marked the YES NO NA excess amount with the date the excess amount began accumulating? Has the generator either YES NO N/I

accumulation

removed the excess amount within three days of the date of excess accumulations or has he complied with all other provisions for

question 5 on this checklist?

Namely, has he notified

areas listed

	location of the accumulation area?	
•	If <u>no</u> , what has the generator chosen to do?	
5.5.A.	19. Does the generator retain copies of Annual reports, and test results for at least three years?	в по
5.5.B.	20. Has the facility submitted an annual YP report for the preceding calendar year?	s) no
-	21. Comments:	•
		<b>O</b> si

APRIL 1990

## INSPECTION CHECKLIST FOR THE USE AND MANAGEMENT OF CONTAINERS

Name	e of Facility: Huntsman Chemical Corporation	
	ress: 5/00 Bainbridge Blvd.	
	Chexapealle VA 23320	
EPA	ID Number: <u>VAD086302866</u>	
Faci	ility Inspection Representative: Van H. White	
Titl	Le: Manager of Environmental Affairs	
Tele	ephone Number: ( <u>804</u> ) <u>494 - 2740</u>	
Insp	pector's Name: Evica S. Dameron	
Titl	Le: Environmental Engineer Senior	
	e of Inspection: MAy 23, 1990	
Va. Hazar Waste Reg 9.8.B.		es) no
	deterioration/deformation?  If no, list the storage/accumulation areas where there are problems and the type of problem:  Location Problem	· · · · · · · · · · · · · · · · · · ·
9.8.C.	2. Are the containers lined or made of materials compatible with hazardous waste placed into them so that the container will not react with, or otherwise be incompatible with, the hazardous wastes stored?	ЕВ) ио

6.4.E.l.b.	3. Is the date upon which each period of accumulation begins clearly marked and visible for inspection on each container?	YES NO
6.4.E./. c.	4. Is the container labeled or marked clearly with the words "Hazardous Waste"? rail curs	YES NO
9.8.D.1.	5. Are all containers holding hazardous waste kept closed during storage except as necessary to add or remove waste?	YES NO
	If <u>no</u> , list the locations where open containers are found.	
9.8.E.	6. Are areas where hazardous waste containers are stored inspected by the owner/operator at least weekly?	YES NO
9.1.F.2.a. 9.1.F.4. 6.4.E.1.d.	7. For large quantity generators and TSD facilities only: Is an inspection log maintained?	YES NO
9.8.F.	8. Are containers holding ignitable or reactive waste located at least 50 ft. from the facility's property line?	YES NO
9.8.G.1.	9. Are incompatible wastes placed in separate containers?	YES NO MA
9.8.G.3.	10. Are storage containers holding hazardous wastes which are incompatible with any materials or other hazardous wastes stored nearby separated from the other materials or protected from them by means of dikes, berms, walls, or other devices?	YES NO NA

6.4.E.3.a.	<pre>11. For satellite accumulation areas:</pre>	
	a. Are there more than 55 gallons of any one type of waste present in the area?	YES NO
	If yes,	
6.4.E.3.b	b. Has the amount in excess of 55 gallons been in the satellite accumulation area longer than 3 days?	YES NO NA
	If yes,	•
6.4.E.3.b. 6.4.E.1.b.	c. Has the company notified the Department about the location of the accumulation area?	YES NO //#
	10. Comments:	
,		
		<i>,</i>

.....

# CHECKLIST FOR RCRA INSPECTION OF RECYCLABLE MATERIALS (USED OIL, HAZARDOUS WASTE FUEL, AND PRECIOUS METALS)

Name of 1	Facility: Hustman Chemical Corporation		
*	5100 Bainbridge Blvd		
	Cherapeake VA 23320		_
EPA ID N	umber: <u>VAD 086302866</u>		
Facility	Representative: <u>Van H. White</u>		
Title: <u>/</u>	Manager of Environmental Affairs		
	Number: (804) 494-2740		_
Inspector	Name: Enca S. Damerm		
Title: <u>£</u>	nvironmental Engineer Senior		_
	Inspection: May 23, 1990		
VHWMR Ref.	1. Does the facility generate transport, market or recycle hazardous wastes that are burned for energy recovery (hazardous waste fuel) in any boiler or industrial furnace that is not regulated as an incinerator? Identify: FOO3 pert to Oldmer	YES	ИО
13.4.A.1	2. Does the facility generate, market or recycle used oil that is burned for energy recovery (used oil fuel) in any boiler or industrial furnace that is not regulated as an incinerator except used oil mixed with hazardous wastes? Identify:	YES	NO
	(Note: Used oil burned for energy recovery is regulated as used oil fuel rather than hazardous waste fuel if it is a hazardous waste solely because it exhibits a characteristic of hazardous waste and is not mixed with a hazardous waste, or if it	i o	

contains hazardous waste generated by a conditionally exempt SQG, or if it exceeds the following maximum levels of hazardous constituents (off-specification used oil fuel):

Arsenic 5 ppm
Cadmium 2 ppm
Chromium 10 ppm
Lead 100 ppm
Flash point 100 F minimum
Total Halogens 4000 ppm \*

- \* Used oil which contains greater than 1000 ppm total halogens is assumed to contain halogenated hazardous waste and therefore be regulated as hazardous waste fuel unless the company has shown that the used oil does not contain hazardous waste. For those wastes shown not to contain hazardous waste, the maximum allowable total halogen level is 4000 ppm.)
- 3. Does the facility generate, transport or store recyclable materials that are reclaimed to recover economically significant amounts of gold, silver, platinum, palladium, iridium, osmium, rhodium, ruthenium, or any combination of these?
- 13.6.B.

  4. Does the facility store spent batteries before reclaiming them? [Note: Persons who generate, transport, or collect spent batteries, or who store spent batteries but don not reclaim them are not subject to VHWMR Parts IV through XIII.]

YES /

NO

For facilities who answered "Yes" to question 1, complete questions 5 through 10:

5. Does the facility:

a) generate b) transport c) market d) burn

hazardous waste fuel? (circle one)

[Note: If facility is a transporter, complete transporter checklist.]

	6.	For marketers of hazardous waste fuel:		
		a. For marketers who make the claim that the waste is legitimate hazardous waste fuel, how is this done?		
		Identify each waste stream (if more than one stream is mixed together, identify each stream separately):		
		BTU value of each stream:		
	7.	For marketers of hazardous waste fuel:		
13.3.B.1.a 13.3.E.2		a. Does the person market hazardous waste fuel only to those persons who have completed a Notification of Hazardous Waste Activity and received an EPA Identification Number, and who burn the fuel in boilers or industrial furnaces as defined in VHWMR Part I?	YES	NO NA
13.3.E.3.		b. Are the provisions of VHWMR Sections 6.4.E, 9. through 9.11., 10. through 10.11. and Part XI being adhered to?	YES	no NA
13.3.E.5.a		c. For marketers who ship hazardous waste fuel to a burner or another marketer, has the marketer first obtained a one time written and signed	YES	NO NA
		notice from the burner or marketer certifying that the burner or marketer has completed a Notification of Hazardous Waste Activity, and if the recipient is a burner, that the hazardous waste fuel will be burned in a boiler or industrial furnace only as		
13.3.E.5.b		<ul><li>defined in VHWMR Part I?</li><li>d. For marketers who accept shipments</li></ul>	YES	NO NA
13.3.6.5.0		of hazardous waste fuel from other marketers, has the accepter submitted the appropriate certification identified in c above?	ies.	NO /V/
13.3.E.6.		e. In addition to any applicable generator or storer recordkeeping requirements, does the marketer keep	YES	no NA

copies of all certification notices he receives or sends for at least three years from the date of his last transaction with the person to whom the certification was made?

13.3.B.2 8.	For burners (recyclers):	YES	NO NA
	a. Is the hazardous waste fuel burned only in an industrial furnace, industrial boiler or utility boiler as defined in VHWMR Part I? Identify:		
13.3.F.2	b. Has the burner filed the appropriate Notification of Hazardous Waste Activity for his burning activities and received an EPA Identification Number?	YES	NO NA
13.3.F.3.a	c. For short term accumulation by generators who burn their hazardous waste fuel on site, are the applicable accumulation provisions of VHWMR Section 6.4.E. being met (see generator checklist)?	YES	NO NA
13.3.F.3.b 13.3.F.3.c	d. For existing or new storage facilities who burn their hazardous waste fuel on site, are the applicable storage provisions of VHWMR Sections 9. through 9.11. or 10. through 10.11. respectively being met?	YES	NONA
13.3.F.4	e. Before the burner accepts his first shipment of hazardous waste fuel from a marketer, has he provided the marketer with a one-time written and signed notice certifying that he has completed a Notification of Hazardous Waste Activity and obtained an EPA Identification Number, and that he will burn the hazardous waste fuel only in a boiler or industrial furnace?	YES	NO NA
13.3.F.5.	f. In addition to any applicable generator or storer recordkeeping requirements, does the burner keep copies of all certification notices he sends for at least three years from the	YES	NO 1A

date of his last transaction with the person to whom the certification was made?

13.3.C.	9. For generators of hazardous waste fuel: generators of hazardous waste fuel are subject to VHWMR Parts V and VI. Complete Generator Checklist.		
	10. If the generator makes the claim that this is legitimate hazardous waste fuel, how is this done? high BTV writer!		
	Identify Waste: Foo3		
	BTU value: 18,000 BTU/16		
	For facilities who answered "Yes" to question 2, complete questions 11 through 14:		
	11. Does the facility:	NA	
	a)generate b) market c)burn	<b>~</b>	
	used oil burned for energy recovery? (circle one)		
	12. Has the inspector determined that the used oil is not mixed with hazardous waste? If not, do so.		
13.4.A.2.	Has the generator mixed hazardous waste with his used oil?	YES	NO NA
	If <u>yes</u> , explain:		
	(Complete the hazardous waste fuel section of the checklist if the used oil is burned for energy recovery.)	· /	

13.4.B.1.a 13. For marketers of used oil fuel:

	a. Does the person market used oil fuel only to burners or other marketers who have completed a Notification of Hazardous Waste Activity and received an EPA Identification Number, and who burn the fuel in boilers, industrial furnaces or used oil-fired space heaters as defined in VHWMR Part I?	YES	NO NA
13.4.D.2.e	b. For marketers who ship used oil fuel to a burner or another marketer, has the marketer first obtained a one time written and signed notice from the burner or marketer certifying that the burner or marketer has completed a Notification of Hazardous Waste Activity, and if the recipient is a burner, that the used oil fuel will be burned in a boiler or industrial furnace only?	YES	NO NA
13.4.D.2.e	c. For marketers who accept shipments of used oil fuel from other marketers, has the accepter submitted the appropriate certification identified in c above?	YES	no AA
13.4.D.2.f	d. In addition to any applicable generator or storer recordkeeping requirements, does the marketer keep copies of all certification notices he receives or sends for at least three years from the date of his last transaction with the person to whom the certification was made?	YES	NO NA
13.4.D.2.a	e. Has the marketer obtained analyses or other information documenting that the used oil fuel does not exceed the maximum levels allowed in question 2?	YES	NO NA
13.4.D.2.c	f. Has the marketer completed a Notification of Hazardous Waste Activity and obtained an EPA Identification Number?	YES	NO NA
13.4.D.2.d	g. For each shipment of off- specification used oil to be burned for energy recovery initiated by the marketer, has the marketer prepared and sent an invoice to the receiving facility?	YES	NO NH

Ιf	yes,	did	the	invoice	contain	the
	lowing					

	1. An invoice number;	YES	no NA
	2. His own EPA Identification number and the identification number of the receiving facility?	YES	NO NA
	3. The names and addresses of the shipping and receiving facilities?	YES	NO NA
	4. The quantity of off- specification used oil to be delivered?	YES	NO NA
	5. The date of shipment or delivery?	YES	NO NA
	6. The following statement; "This used oil is subject to EPA regulation under 40 CFR Part 266."?	YES	no Na
13.4.D.2.f	h. Does the marketer keep copies of the following records for at least three years:		
	<ol> <li>Copies of analysis for used oil which he claims meets specifications?</li> </ol>	YES	NO NA
	2. An operating log containing the following information for each shipment of used oil fuel that meets specification: Name and address of the receiving facility; the quantity of used oil fuel delivered; date of shipment or	YES	NO WA
	delivery; and a cross-reference to the record of used oil analysis?		
	3. For each shipment of off- specification used oil fuel initiated, a copy of each invoice?	YES	NO /V A
	. For burners (recyclers) of used oil nel:		
13.4.E.2	a. Has the burner filed the appropriate Notification of Hazardous Waste Activity for his burning	YES	NO NA

	activities and received an EPA Identification Number?		
13.4.E.3	b. Prior to accepting the first shipment of off-specification used oil fuel from a marketer, did the burner provide each marketer with a one-time written and signed notice certifying that he has completed a Notification of Hazardous Waste Activity and received an EPA ID Number, and that he will burn used oil only in an industrial furnace or boiler?	YES	no NA
13.4.E.5.	c. Has the burner kept a copy of each of the following for at least three years:		
	1. Each invoice he has received?	YES	NO NA
	2. Copies of each analysis of used oil fuel?	YES	NO NA
	3. A copy of each certification notice that he sends to a marketer?	YES	NO NA
For facilitie 15 through 16	s who answered "Yes" to question 3, complete:	question	is
15 through 16 13.5.B.1. 15. sto met		question	is
15 through 16 13.5.B.1. 15. sto met	Have persons who generate, transport or recyclable materials used for precious at recovery met the following	question YES	NO NA
15 through 16 13.5.B.1. 15. sto	Have persons who generate, transport or re recyclable materials used for precious al recovery met the following uirements:  a. Notification requirements of VHWMR		
15 through 16 13.5.B.1. 15. sto met req 13.5.B.1.a	Have persons who generate, transport or re recyclable materials used for precious al recovery met the following uirements:  a. Notification requirements of VHWMR Part IV?  b. Manifest requirements of VHWMR Part	YES	NO NA

13.5.B.1.b	appropria	ng requirements of	and	YĘS **	ио ми
13.5.B.2	materials, have kept to docum	ns who store red the following recor ment that they a se materials speculat	ds been re not		
		s showing the volume of tored at the beginning ar; and		YES	NO NA
		or received during	iterials ng the	YES	NO NA
		nount of materials re of the calendar year?		YES	NO MA
	75% of his	e storer turned over a stored recyclable ma eding calendar year?		YES	NO WA
For facil	ties who answere	d "Yes" to number 4:		······	
13.6.B.		ies who store spent le reclaiming them:	ad-acid		
13.6.B.1.	a. Has Notification		led a	YES	no Ma
13.6.B.3.	appropriate	e facility complied w sections of VHWMR 1.C., 10.4.A., and 10	Part X	YES	NO MA
13.6.B.4.		e facility complied w provisions of VHWMR P		YES	no <i>NA</i>

### CHECKLIST FOR HAZARDOUS WASTE INSPECTIONS OF TANKS

Name of F	acility: Huntsman Chemical Corporation		
Address:_	5700 Bainbridge Blid.	,	
•	Chesapeake VA 23320	`.	
EPA ID Nu	mber: <u>VAD086302846</u>		
Facility	Representative: Van. H. White		
Title: M	anager of Environmental Affairs		
Telephone	Number: (804) 494-2740		
Inspector	's Name: Erica S. Dameson		
Title: £	nvivonmental Engineer School		
	nspection: May 23, 1990		
VHWMR Ref	1. Has the generator notified the Executive Director of the location of all hazardous waste tank accumulation areas?  List all of the tank accumulation areas and give a brief description of each one. Include the age of each tank, if known,	YES (	NO
	4 tanke @ 10,000 gallons in outside starage 4 tanke @ 12,000 gallons in acclude starage		
	Is the tank used to store hazardous waste for greater than 90 days (or 180 or 270 days for a SQG)?  If yes, then has the facility applied	YES , YES	NO
	for a hazardous waste storage permit?		

6.4.E.1.c.	2. Is each tank marked with the words "Hazardous Waste"?	YES NO V
9.9.A.1.	3. Is the tank used to store or treat hazardous waste that contains no free liquids as demonstrated by the Paint Filter Liquids Test (i.e., solids only)?	YEŞ NO
9.9.A.2.	4. Does the tank (including sumps) serve as part of a primary secondary containment system to collect or contain releases of hazardous waste?	YES NO
9.9.D.1.	5. Does the facility have any of the following units:	
9.9.D.1.a.	a. New tank systems installed since January 1, 1988?	YES NO
9.9.D.1.b	b. Existing tanks used to store F020, F021, F022, F023, F026, or F027?	YES NO
9.9.D.1.c	c. Existing tanks whose documented age is greater than fifteen years of age?	yes no
9.9.D.1.c.	d. Existing tanks whose documented age is less than fifteen years of age?	YES NO
	If yes, when will the tank become fifteen years old? 40/2,000 gallow 1991	
9.9.D.1.d.	e. Existing tanks for which the age cannot be documented within eight years of January 12, 1987? If yes, when will the facility become fifteen years old?	YES NA NO
9.9.D.1.	6. Has secondary containment been provided for each unit identified by (a) through (e) above?	YES NO
	If <u>no</u> , identify the units for which secondary containment has not yet been provided.	

9.9.D.2	7. Does the secondary containment provided for units identified by 5(a) through (e) meet the following requirements:		
9.9.D.2.a.	a. Is the secondary containment designed, installed and operated to prevent any migration of wastes or accumulated liquid out of the system to the soil, groundwater, or surface water at any time during the use of the tank system?	YES	МО
9.9.D.2.b.	b. Is the secondary containment system capable of detecting and collecting any releases and accumulated liquids until the collected material can be removed? visual detection, high level alarm on tank to present overfelling	YES	МО
9.9.D.3.a	c. Is the secondary containment constructed of or lined with materials that are compatible with the waste(s) to be placed in the tank system and of sufficient strength and thickness to prevent failure due to pressure gradients, physical contact with the waste, climatic conditions, stress of installation, and the stress of daily operation?	YES	МО
9.9.D.3.b.	d. Is the secondary containment placed on a foundation or base capable of providing support to the secondary containment system and resistance to pressure gradients above and below the system owing to settlement, compression or uplift?	YES	МО
9.9.D.3.c.	e. Is the secondary containment provided with a leak-detection system that is designed or operated so that it will detect the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within 24- hours or at the earliest practicable time if the existing detection technology or site conditions will not allow detection of a release within 24-hours?  Visual delection only; area manual 24hra/d.  Is the secondary containment	YES	NO /week
9.9.D.3.d.	f. Is the secondary containment system sloped or otherwise designed or	YES "	МО

9.9.D.4.	the tanks consist of one or more of the following:	
9.9.D.4.a	a. A liner (external to the tank); or	YE

9.9.D.4.a	a.	A liner (external to the tank); or	YES	NO
9.9.D.4.b	b.	A vault; or	YES	NO
9.9.D.4.c	c.	A double-walled tank; or	YES	NO
9.9.D.4.d	đ. by 1	An equivalent device as approved the Executive Director?	YES	NO

#### FOR EXTERNAL LINER SYSTEMS ONLY:

9.9.D.5.a.	9.	Is the external liner system:		
9.9.D.5.a.1		Designed or operated to contain of the capacity of the largest within its boundary; and	YES NA	NO
9.9.D.5.a.2	run- into unle: suff the	Designed or operated to prevent on or infiltration of precipitation the secondary containment system ss the collection system has icient excess capacity to contain precipitation from a 25-year, 24-rainfall event; and	YES NA	NO
9.9.D.5.a.3	c.	Free of crack or gaps; and	YES NA	ИО
9.9.D.5.a.4	comp:	Designed and installed to letely surround the tank and to rall surrounding earth likely to into contact with the waste if	YES NA	МО

### FOR VAULT SYSTEMS ONLY:

9.9.D.5.b. 10. Is the vault system:

released from the tank?

		_	
9.9.D.5.b.1.	a. Designed or operated to contain 100 % of the capacity of the largest tank within its boundary; and	YES	ИО
9.9.D.5.b.2.	b. Designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient capacity to contain the precipitation from a 25-year, 24-hour rainfall event; and	YES	МО
9.9.D.5.b.3.	c. Constructed with chemical- resistant water stops in place at all joint (if any); and	YES	МО
9.9.D.5.b.4.	d. Provided with an impermeable interior coating or lining that is compatible with the stored waste and that will prevent migration of waste into the concrete; and	YES	ИО
9.9.D.5.b.5	e. Provided with a means to protect against the formation of and ignition of vapors within the vault, if the waste being stored or treated is ignitable or reactive; and	YES	ИО
9.9.D.5.b.6.	f. Provided with an exterior moisture barrier or be otherwise designed or operated to prevent migration of moisture into the vault if the vault is subject to hydraulic pressure?	YES	NO
FOR DOUBLE-WA	LLED TANKS ONLY:	. ;	
9.9.D.5.c.	11. Is the double-walled tank:	•	
9.9.D.5.c.1	a. Designed as an integral structure (i.e., an inner tank with an outer shell) so that any release from the inner tank is contained by the outer shell; and	YES	ИО
9.9.D.5.c.2	b. Protected, if constructed of metal, from both corrosion of the primary tank interior and the external surface of the outer shell; and	YES	NO
9.9.D.5.c.3.	c. Provided with a built-in,	YES	МО

continuous leak detection system capable of detecting a release within 24-hours or at the earliest practicable time; and

FOR ALL TANK	UNITS:	.•	
9.9.D.6	12. Does the tank system have ancillary equipment?	YES	МО
	If yes, does the ancillary equipment have secondary containment (e.g., trench, jacketing, double-walled piping) which meets the requirements of item #7 above? If no, please explain.  All fise lines are above ground connecting values are above the period and the presentations.	YES	NO
9.9.D.8	13. For all tank systems for which secondary containment meeting the above requirements has not yet been provided, has the facility complied with the following for the units:     + has been provided		
9.9.D.8.a	a. For non-enterable underground tanks, has a leak test been conducted at least annually?	YES	NO ∕
9.9.D.8.b	b. For other than non-enterable underground tanks and for all ancillary equipment, an annual leak test or other internal inspection or other tank integrity examination by an independent, Virginia-registered professional engineer that addresses cracks, leaks, corrosion and erosion conducted at least annually?	YES	NO
9.9.D.8.c	c. Has the owner/operator maintained on file at the facility a record of the results of the above assessments?	YES	NOA
9.9.B.1	14. For each existing tank system which does not have secondary containment meeting the requirements of VHWMR Section 9.9.D [#7, 8, 9, 10, 11 and 12 above], has the owner/operator determined that the tank system is not leaking or is unfit for use?	YES	NO

•		YES	МО
	If <u>yes</u> , is a copy of this written assessment reviewed and certified by an independent Virginia-registered professional engineer kept on file at the facility?		
9.9.E.2.	15. Has the owner/operator used appropriate controls and practices to prevent spill and overflows from tank or secondary containments systems, including	YES	МО
9.9.E.2.a	a. Spill prevention controls (e.g. check valves, dry disconnect couplings)? Describe: <u>Migh lenel alarm on tanks and reparted to Control room</u>	YES	ИО
9.9.E.2.b	b. Overfill prevention controls (e.g. level sensing devices, high level alarms, automatic feed cutoff, or bypass to a standby tank)? Describe:	YES	NO
9.9.E.2.c	c. Maintenance of sufficient freeboard in uncovered tanks to prevent overtopping by wave or wind action or by precipitation?	YES	МО
9.9.F.1	16. Does the owner/operator inspect the following at least once each operating day:	;	
9.9.F.1.a	a. Overfill/spill control equipment (eg., waste-feed cutoff systems, bypass systems, and drainage systems) to ensure that it is in good working order; and	YES)	NO
9.9.F.1.b	b. The aboveground portions of the tank system, if any, to detect corrosion or releases of waste; and	YES	NO
9.9.F.1.c	c. Data gathered from monitoring equipment and leak detection equipment (e.g. pressure and temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design; and	YES	NO

9.9.F.1.d	d. The construction materials and the area immediately surrounding the externally accessible portion of the tank system including secondary containment structures to detect erosion or signs or releases of hazardous waste?	YES	NO
9.1.F.4. 9.9.6,3.	17. Is a log of the inspections maintained at the facility?	YES	NO
9.9.F.2	18. For all underground and in-ground hazardous waste storage tanks, are cathodic protection systems present?	YES NA	NO
	If <u>yes</u> , is the cathodic protection inspected according to the following schedule:		
9.9.F.2.a	a. The proper operation of the cathodic protection system shall be confirmed within six months after initial installation, and annually thereafter;	YES // /k	МО
9.9.F.2.b	b. All sources of impressed current shall be inspected and/or tested, as appropriate, at least bimonthly;	YES N A	NO
9.9.F.2.c	c. Is inspection of items a and b above documented in the facility operating record?	yes NA	МО
9.9.D.8.d	19. Has any tank system or component been found to be leaking or unfit for use as a result of a leak test or assessment?	YES	<b>Q</b>
9.9.E.3	20. Has a leak or spill occurred from any tank system?	YES	NO

If the answer to questions 19 or 20 was <u>yes</u>, complete questions 21 through 27. Otherwise, skip to number 28.

9.9.G

21. For tank systems or secondary containment which have been determined to be leaking or unfit for use, or from which there has been a leak or spill, has the owner/operator satisfied the

### following requirements:

9.9.G.1	a. Has the owner/operator immediately stopped the flow of hazardous waste into the tank system or secondary containment and inspected the system to determine the cause of release?	YES № NO
9.9.G.2.a	b. For releases from the tank system, has the owner/operator, within 24-hours or at the earliest practicable time, removed as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the tank system?	YES NA NO
9.9.G.2.b	c. For releases to a secondary containment system, have all released materials been removed within 24-hours or in as timely manner as is possible to prevent harm to human health and the environment?	YESNA NO
9.9.G.3.a	d. Prevented further migration of the leak or spills to soils or surface water?	YES NA NO
9.9.G.3.b	e. Removed and properly disposed of any visible contamination of the soil or surface water?	YESNA NO
9.9.G.4.a	22. Have all releases to the environment been reported to the Executive Director within 24-hours of detection?	yes <i>na</i> no •
9.9.G.4.c	23. Within 30 days of detection of release, has a report been submitted to the Executive Director?	YES /VA NO
	If <u>yes</u> , did the report contain the following information:	
9.9.G.4.c.1	a. Likely route of migration of the release; and	YES NA NO
9.9.G.4.c.2	b. Characteristics of the surrounding soil; and	YES WA NO
9.9.G.4.c.3	c. Results of any monitoring or sampling conducted in connection with	yes <sub>Ma</sub> no

	the release, if available, or as soon as they became available; and		
9.9.G.4.c.4	d. Proximity to downgradient drinking water, surface water, and population areas; and	YES MA	ои (
9.9.G.4.c.5	e. Description of response actions taken or planned?	YES //	4 no
9.9.G.5.c	24. If the cause of the release was a leak from the primary tank system into the secondary containment system, was the system repaired prior to returning the tank system to service?	YES N	NO NO
9.9.G.5.d	25. If the cause of the release was a leak to the environment from an underground or on-ground component of a tank system without secondary containment, did the owner/operator provide secondary containment before returning the unit to service?	YES NA	NO
9.9.G.5.d	26. If the cause of the release was a leak to the environment from an aboveground component of a tank system without secondary containment, was the component visually inspected and repaired?	YES // /	NO
9.9.G.6	27. For all units which have been repaired, if any, did the owner/operator obtain certification from an independent, Virginia-registered professional engineer that the repaired system is capable of handling hazardous wastes without release for the intended life of the system prior to returning the unit to service?	YES (//	NO
9.9.H.1	28. At closure of any hazardous waste tank system, did the owner/operator remove or decontaminate all hazardous waste residues, contaminated containment system components, contaminated soil, and structures and equipment contaminated with waste, and manage them as hazardous waste?	YES NA	NO.
9.9.1	29. Are ignitable or reactive wastes placed in the tank system?	YES	NO

### If yes,:

	G/	_
9.9.I.1.a	a. Was the waste treated, render or mixed before or immediately after placement in the tank system so that the resulting waste, mixture or dissolved material no longer meets the definition of ignitable or reactive waste; or	YES NO
9.9.I.1.b	b. The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite or react; or managery and making	(YES) NO
9.9.I.1.c	c. The tank system is used solely for emergencies?	YES (NO)
9.9.1.2	d. Does the owner/operator comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys or an adjoining property line as required in NFPA's "Flammable and Combustible Liquids Code"?	YES NO
9.9.J.1	30. Are incompatible wastes, or incompatible wastes and materials placed in the tank system?	YE'S NO
	If <u>yes</u> , was the tank and all related equipment decontaminated first?	YES NA NO
9.9.K	31. Has the tank system been used to treat chemically or to store a hazardous waste that is substantially different from waste previously treated or stored in that tank system; or to treat chemically a hazardous waste with a substantially different process than any previously used in that tank system?	YES NO
	If yes,:	
9.9.K.1	a. Did the owner/operator first conduct waste analyses and trial treatment or storage tests?	YES NA NO
9.9.K.2	b. Did the owner/operator obtain written, documented information on similar waste under similar operating	YES NA NO

conditions to show that the proposed treatment or storage will not cause the tank, ancillary equipment or the secondary containment to rupture, leak, corrode or otherwise fail?

32.	Comments:	
	,	